

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A method of establishing a network connection ~~capable of transmitting data from a mobile computing device to a data source on a foreign network wherein the computing device is capable of connecting to at least one network and of making requests for data from the at least one network and has a network connection with an existing network~~, the method comprising:

i: ~~determining~~configuring a first network connection between a mobile computing device and a foreign network via a home network;

~~determining whether that~~ a data source for data requested by the mobile computing device originates from within the foreign network;

~~_____ ii: if the data requested by the computing device does originate within the network, breaking at least a portion of the first network connection; with the existing network and~~

establishing a second network connection between the mobile computing device and the data source with the network within the foreign network for that portion of the network connection that was previously connected to the existing network.

2. (Currently Amended) A method according to claim 1, which ~~uses the~~uses Session Initiation Protocol (SIP) to initiate the breaking of the first network connection ~~to the existing network~~.

3. (Currently Amended) A method according to claim 1, in which at least one of the home network and the existing-foreign network comprises a plurality of sub connections and the method is applied to at least one of the sub connections.

4. (Currently Amended) A method according to claim 1, in which the portion of the first network connection with the existing-home network that is broken is re-established once data no longer originates within the network is no longer being requested from the data source by the mobile computing device.

5. (Currently Amended) A method according to claim 1 in which MobileIP is used to maintain a network connection with the existing-foreign network.

6. (Currently Amended) A method according to claim 1 in which the mobile computing device is assigned an IP address within the foreign network for transmission of data that originates from the foreign network.

7. (Currently Amended) A method according to claim 6 in which MobileIP is used to maintain a network connection with the existing-foreign network and the IP address assigned to the mobile computing device is used instead of a care of address assigned by the MobileIP for data that originates within the foreign network.

8. (Currently Amended) A method according to claim 1, ~~in which the computing device is capable of~~ wherein prior to establishing the new network connection, the method includes at least one of:

assessing security implications in assigning a new IP address to the mobile computing device;

determining bandwidth availability on the foreign network; and

determining a number of routers/switches required for the new connection;~~bandwidth and speed of a proposed connection and before at least a portion of the network connection with the existing network for the data is broken and a network connection with the network for that portion of the network connection that was previously connected to the existing network is established, an assessment of at least one of the following is made: the security implications for the network; whether there is sufficient bandwidth in the network to support the new connection; whether a network connection to the network would be faster/slower than the network connection to the existing network.~~

9. (Currently Amended) A computing device within a foreign network configured to determine that a network address of a data source, from which a mobile computing device operating in the foreign network, is requesting data, is in the same foreign network, the computing device further configured to establish a network connection between the mobile computing device and the data source without using a care of address assigned by the foreign network~~computing device capable of establishing a network connection with, and capable of transmitting data to, an existing network, the device capable of determining the origin of data transmissions and further being capable of being given a care of address by a network which can be used to enable data transmission to the existing network such that data sent from the device generally uses the care of address, the device being arranged to communicate with the network without using the care of address if it is determined that data being sent to the device originates within the network.~~

10. (Currently Amended) A ~~device~~The computing device, according to claim 9, further configured to assign which is arranged to receive a network address, which may be an IP address to the mobile computing device to,~~to use whilst performing one of requesting and receiving data originating from within the foreign network.~~

11. (Currently Amended) ~~A device~~ The computing device, according to claim 10, further configured to stop using the assigned IP address which is arranged such that, once data no longer originates from within the foreign network, the network address is no longer used.

12. (Currently Amended) A processing device ~~capable of controlling~~ configured to control the establishment and dropping of a network and network connections within a first network, the processing device being capable of allowing configured to allow at least one a computing device to make a new network connection to the within the first network, which connection is capable of transmitting data, whilst, at least initially, while maintaining a network connection to an existing another network, the processing device being arranged to provide the at least one computing device with a care of address allowing data to be routed from the existing network to the network, the at least one computing device comprising a data transfer controller capable of determining whether configured to determine that data, being transmitted to the computing device, originates from within the first network and if this is the case being further capable of considering whether that the data should be transmitted to the computing device without the use of using the care of address.

13. (Currently Amended) A processing device according to claim 12, configured which is arranged to assign a network address, which may be comprising an IP address, to a computing device once it has been determined that the care of address should not be used.

14. (Currently Amended) A processing device according to claim 12, ~~which is capable of assessing~~ configured to assess at least one of the following parameters before determining that ~~a care~~ the care of address should not be used: ~~the security~~ security implications for the first network; whether there is sufficient bandwidth in the first network to support the new connection; and whether a new network connection to the network would be faster/slower than

the network connection to the ~~existing~~other network.

15. (Currently Amended) A foreign network ~~capable~~configured to:
establish a first network connection between a computing device in a foreign network and
a data source in the foreign network, using a care of address;
determine at least one of: bandwidth requirements, number of network devices required,
and security implications, of a second network connection from the computing device to the data
source that does not use the care of address;
establish a second network connection for the computing device in the foreign network
without using the care of address; and
break the first network connection that uses the care of address~~of allowing a computing~~
~~device to establish a network connection therewith whilst maintaining a network connection to~~
~~an existing network, by, initially at least, using a care of address for that computing device within~~
~~the network, a data transfer controller of a processing device of the network being arranged to~~
~~determine whether data being transmitted to said computing device originates within said~~
~~network and if this is the case being further arranged to consider whether said data should be~~
~~transmitted without the use of said care of address.~~

16. (Original) A memory storing instructions which when read on to at least one processing device cause that processing device to perform the method of claim 1.

17. (Currently Amended) A memory storing instructions which when read on to a processing device cause that processing device to function as the computing device of claim 9.

18. (Currently Amended) A memory storing instructions which when read on to a processing device cause that processing device to function as the processing device of claim 12.

19. (Original) A memory storing instructions which when read on to a processing device running a network cause the network to function as the network of claim 15.

20. (Currently Amended) A method of establishing ~~a network connection to a network, the network connection being capable of transmitting data from a computing device, the computing device having assigned thereto a network address from an existing network and having a network connection with the existing network,~~network connectivity between a mobile computing device operating within a foreign network and a data source within the foreign network, the method comprising:

i: ~~providing~~providing the mobile computing device with a care of address and establishing a first network connection to the data source using the care of address~~as it enters the network so that data intended for the computing device can be routed to the computing device whilst it is in the network;~~

ii: ~~determining whether~~determining that data requested by the mobile computing device originates from within the foreign network;

iii: ~~if the data requested by the computing device does originate within the network,~~ breaking at least a portion of the first network connection that uses the care of address; ~~with the existing network and~~

assigning a network address, other than the care of address, ~~for the network to the mobile~~ computing device such that the data, originating from the foreign network, is sent to the mobile computing device using the network address~~from the network~~ rather than using the care of address for that portion of the first network address that has had its connection to the existing network broken~~connection that was broken.~~

21. (Currently Amended) A device ~~capable of establishing~~configured to establish a network connection ~~with and capable of transmitting to, and communicate with~~ a home network, the device capable of determining the origin of data transmissions and further ~~being capable of being given~~configured to receive a care of address by a foreign network, ~~the care of address being used which can be used to enable data transmission to the home network such that data sent from the device generally uses the care of address between the device and the home network,~~ the device being arranged to communicate with the foreign network without using the care of address if it is determined that data being sent to the device originates within the foreign network.

22. (Currently Amended) A server operating on a first network, the server capable of controlling~~configured to:~~

~~a network and network connections within a network, the server being capable of~~
provide a care of address to at least one computing arrangement on the first network;
connect the computer arrangement to another network using the care of address allowing
~~at least one computing arrangement capable of connecting to a network to make a network connection to the network, the connection being capable of transmitting data, whilst, at least initially, maintaining a network connection to an existing network,~~
determine that data being transmitted to the computer arrangement originates from a data source within the first network; and

connect the computing arrangement to the data source without using the care of
~~address~~the server being arranged to provide the at least one computing arrangement with a care
~~of address allowing data to be routed from the existing network to the network, the at least one~~
~~computing arrangement comprising a data transferrer capable of determining whether data being~~
~~transmitted to the computing arrangement originates within the network and if this is the case~~
~~being further capable of considering whether the data should transmitted without the use of the~~
~~care of address.~~

23. (Currently Amended) A ~~second computer network~~ comprising a computing arrangement ~~capable of establishing~~ configured to establish a second network connection ~~with a network to establish a network connection therewith~~ whilst maintaining a first network connection to an ~~existing~~ first network, ~~the first network connection using a care of address assigned to the computer arrangement, by, initially at least, using a care of address for that computing arrangement within the network,~~ the second network comprising a ~~processing arrangement which further comprises a data transfer controller for determining~~ configured to determine whether that data, being transmitted to the computing arrangement originates from within the second network, the data transfer controller and, if this is the case, being arranged to considering further configured to determine whether the data should be transmitted without the use of the care of address.

24. (Currently Amended) A method of establishing a network connection ~~capable of transmitting data allowing from~~ a computing device operating on a foreign network to receive data from a data source within the foreign network, without the use of a care of address associated with the computing device, ~~to a network wherein the computing device is capable of connecting to at least one foreign network and of making requests for data from the at least one foreign network and has a network connection with a home network,~~ the method comprising:
establishing a first network connection between the computing device and a home network using a care of address assigned to the computing device;

i: ~~determining whether~~ determining that data requested by the computing device originates from a data source within the foreign network; and

ii: ~~if the data requested by the computing device does originate within the foreign network, breaking~~ disconnecting at least a portion of the first network connection; and
~~with the home network and establishing a second network connection with the foreign~~

~~network between the data source within the foreign network and the computing device operating in the foreign network for that portion of the first network connection that was previously connected to the home network~~disconnected by assigning an IP address to the computing device ~~within the foreign network for transmission of data that originates from the foreign network;~~ and

~~iii. using MobileIP to maintain a network connection with the home network and the IP address assigned to the computing device is used to send data to the computing device instead of a care-of address assigned by the MobileIP for data that originates within the foreign network.~~

25. (Original) A method according to claim 24 in which at least one of the foreign network and home network comprises a plurality of channels and the method is applied to at least one of the channels.

26. (Currently Amended) A method according to claim 24 which uses the Session Initiation Protocol (SIP) to initiate the breaking of the first network connection to the home network.

27-28. (Canceled).